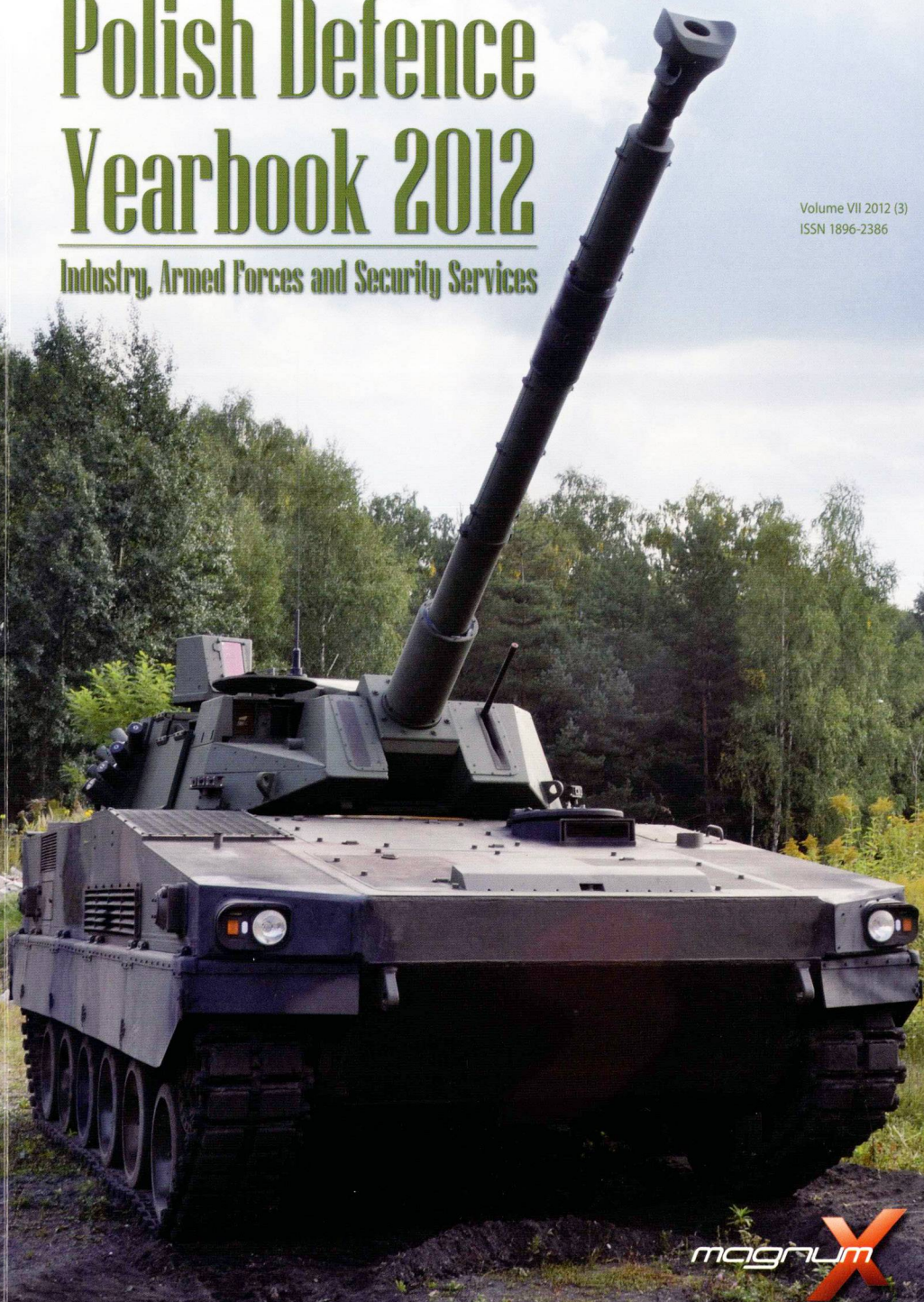


Polish Defence Yearbook 2012

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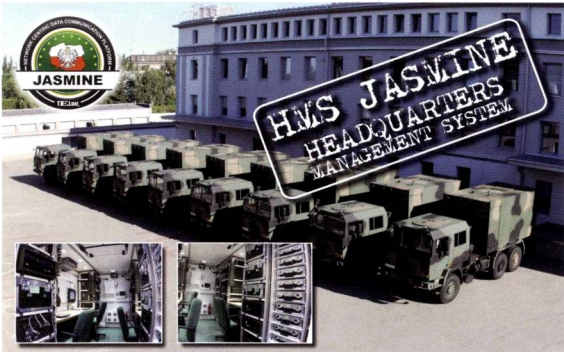
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Jasmine as a Ready, Proven and Comprehensive C3I System to Support Land Forces Activities

TELDAT



Registered Partnership TELDAT has successfully operated on the defence market since several years. It is known designer, manufacturer of the most modern in the world comprehensive and specialized teleinformatics solutions dedicated to security and defence in the international scale.

The Company's Flagship Product – is **Network Centric Data Communication Teleinformatic Platform JASMINE** (also called **JASMINE System** or **JASMINE**). This solution since 2005 is delivered to the Polish Armed Forces. The system is dedicated to command support of military operations. It is comprised of specialized hardware and software. The product of its kind is currently the only solution (in Poland and also in the wide world). The system is comprehensive, versatile, compact (technology, hardware, software and component – mainly in terms of: HMS, BMS, and DSS). It is reliably proven, scalable, ready to use. The unique product in many aspects and internationally highly respected. Belongs to a group of **C4ISR** systems (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance).

The platform just today significantly:

- support command and management processes and military operations at all levels down to dismounted soldier;
- create the situational awareness of troops, including headquarters and staffs, i.e. by creating the Common Operational Picture – COP;
- increase security of troops and their elements including soldiers and vehicles;
- enable a construction of military, mobile networks in an IP technology (Internet Protocol).

JASMINE is a system based on a component model, in accordance with NATO Network Enabled Capability, which recommends data sharing between distributed

decision nodes. This is why the system's elements were designed to be operated and used on all military levels, from the highest to a dismounted soldier level.

The **JASMINE** since few years has been exploited as reference solution for the systems being used in other armed forces of NATO countries.

JASMINE System is produced in four versions:

- shelter and portable version – **HMS JASMINE** (Headquarters Management System);
- mobile version – **BMS JASMINE** (Battlefield Management System);
- dismounted soldier version – **DSS JASMINE** (Dismounted Soldier System).

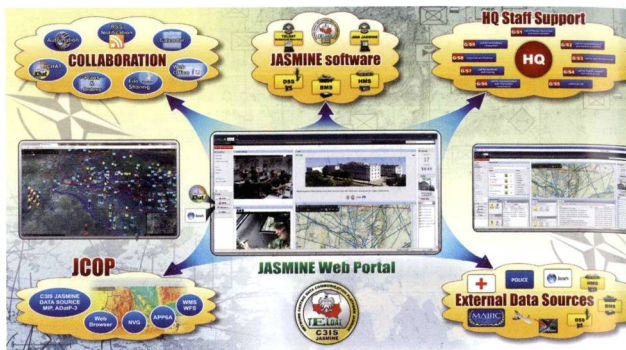
Network Centric Data Communication Platform JASMINE includes other unique and valuable (also in the world scale) products developed and produced by our company as follows:

- **C3IS JASMINE System (C3IS JASMINE)** it is a comprehensive multilevel system, operates from operational level (**HMS C3IS JASMINE**) down to dismounted soldier (**DSS C3IS JASMINE**). The system provides the opportunity to support the command process for infantry command posts as well as for armored troops (**BMS C3IS JASMINE**);
- **JASMINE Web Portal** is a software module of **C3IS JASMINE System** used at the operational and tactical level. **JASMINE Web Portal** is a network application dedicated to cooperate with **HMS JASMINE** version which provides the Users the access to the functionalities of the **C3IS JASMINE System**. It also enables to create the Common Operational Picture. This solution uses web services technology (Web Services), which provides Users an access to shared operational information by the use of the common web browsers. The



main purpose of this solution is to support the command processes by the use of a centralized portal, enabling the effective staff collaboration of all involved in this process groups and sections of the operational level (or on depends of the other tactical level needs);

- **Battlefield Replication Mechanism (BRM)** provides efficient data transmission even across the narrow band (HF and VHF) radio;
- **Gateway MIP B2/B3** – the only such component on an international scale provides a cooperation opportunity between both different standards systems describing theatre of operations. This solution is evaluated as a remarkable achievement, also in the scale of NATO;
- **Multiprotocol NATO Friendly Force Information Proven HUB (Multiprotocol NFFI Proven HUB)** the only one in the world was proven and certified possible to be use instead of operational NFFI HUB developed by NC3A. Moreover HUB of the **JASMINE System** is enable to operate simultaneously multiple versions of NFFI, for this reason it makes this product unique;
- **JASMINE Modules Management (JMM)** provides simple and transparent way to configure the **JASMINE System** beginning from the network layer through services supporting the command process and operational activities;
- **Information Exchange Gateway JASMINE (IEG JASMINE)** ensures secure data information transfer between different security domains and it is an answer of TELDAT Company for NATO IEG concept. It consists of newly developed hardware modules, as: **Firewall Box**, **IEG FS JASMINE (Functional Services)** and **IEG CS JASMINE (Core Services)**;
- **Data Communications Resources Management System KTSa (SZZT KTSa)** enables a real time monitoring of wide area networks with different security levels. Provides tools enabling expert analysis within the IP networks;
- **Safe Exchange Information System (SEIS)** – one of the widest IT systems, working reliably in Polish Armed Forces. The comprehensive and unique system in Europe for safe and reliable exchange of information. Made in the most modern technologies, especially IP data and VoIP. It allows the transmission of: alarms, orders, reports and other documents in data communication networks. It gives the possibility to transfer data to selected recipients of information (signals) anywhere in the world;



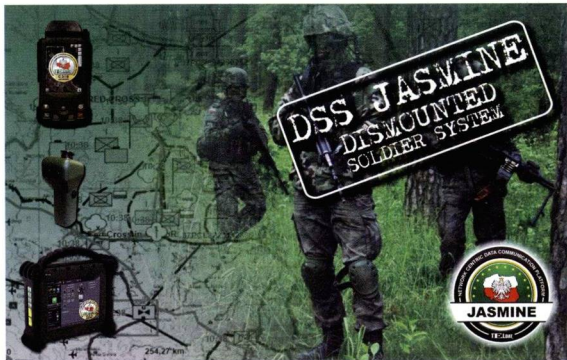
- **Tactical terminals nowadays are the newest TELDAT solutions and currently the products of its kind in Poland and unique in the world.** They meet all military standards in terms of climatic and environmental conditions as well as shock resistance. **The terminals can operate under water two hours at a depth of 1 m.**

C315 JASMINE (including his modules: **HMS, BMS** and **DSS C315 JASMINE**) is the system only one in Poland and one of the few in the world that meet completely all the following interoperability standards:

- **MIP DEM Baseline 2 & 3** (Multilateral Interoperability Programme Data Exchange Mechanism);
- **MIP MEM Baseline 2 & 3** (Multilateral Interoperability Programme Message Exchange Mechanism);
- **NFFI (NATO Friendly Force Information) V.1.3** (IP1, IP2 – STANAG 5527), **SIP3, Multiprotocol HUB**;
- **ADatP-3 Baseline 11C/F, 12.2 & 13** (STANAG 5500);
- **APP6-A, APP6-B** (Tactical symbols), **MIL STD 2525B, MIL STD 2525C, MIP Implementation Rules**;
- **WMS (WebMapService), WFS (WebFeatureService)**;
- **JIPS (JCOF Information Product Services), NVG (NATO Vector Graphics) 1.4 & 1.5**;
- **C2IEM & JC3IEM** (STANAG 5525);
- **Plans & Orders** (STANAG 2014);
- **Battlefield Directory** (STANAG 4644).

JASMINE and its particular components are implemented and exploited in Polish Armed Forces. They are used and tested (in many cases as the national solutions) in the following undertakings:

- during the overseas military missions and Multilateral Interoperability Programme (MIP);
- the biggest exercises organized by Allied Command Transformation (ACT) with the aim to assess to use the systems in NATO Response Forces, specialized NC3 Agency and USEUCOM;
- in tests carried out by NC3A and CELAR in France laboratories.



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